

# N-Nitrosodiethylamine, HFBA-derivative

<b>Inchi:</b>	InChI=1S/C12H6F14N2O2/c1-3-27(4-2)28(5(29)7(13,14)9(17,18)11(21,22)23)6(30)8(15,
<b>InchiKey:</b>	PFBZCIAYISYXMP-UHFFFAOYSA-N
<b>Formula:</b>	C12H6F14N2O2
<b>SMILES:</b>	C=CN(C=C)N(C(=O)C(F)(F)C(F)(F)C(F)(F)F)C(=O)C(F)(F)C(F)(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	476.17

## Physical Properties

Property code	Value	Unit	Source
gf	-2520.74	kJ/mol	Joback Method
hf	-2928.29	kJ/mol	Joback Method
hfus	32.15	kJ/mol	Joback Method
hvap	39.33	kJ/mol	Joback Method
log10ws	-5.80		Crippen Method
logp	4.511		Crippen Method
mcvol	219.220	ml/mol	McGowan Method
pc	1392.29	kPa	Joback Method
rinpola	1100.00		NIST Webbook
rinpola	1100.00		NIST Webbook
tb	570.34	K	Joback Method
tc	712.71	K	Joback Method
tf	409.06	K	Joback Method
vc	0.903	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	626.80	J/molxK	570.34	Joback Method
cpg	638.41	J/molxK	594.07	Joback Method
cpg	649.09	J/molxK	617.80	Joback Method
cpg	658.91	J/molxK	641.52	Joback Method
cpg	667.93	J/molxK	665.25	Joback Method
cpg	676.20	J/molxK	688.98	Joback Method
cpg	683.80	J/molxK	712.71	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R579918&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R579918&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvp:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinp:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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